

		atg Met	_	-						_		_			_	249
_	-	ccg Pro 70			_		_			_	_		_			297
_	-	ctg Leu			-	-										345
	_	ggc Gly						_	_	_						393
		ctg Leu	_	_	_		_	_					_	_	_	441
		atg Met														489
		cgc Arg 150														537
		Gly														585
		cgg Arg	-	_		_			-				-	-		633
		ctc Leu														681
	_	cgt Arg			_											729
		gcc Ala 230		_					_		_					777

	_	_	ctc Leu	_			_	_	_		_	-			825
_	_		ggc Gly	_							_				873
	_		gct Ala			-	-	_		-			_	_	921
		_	ggg Gly 295	-		-	-	-	_		-		_	_	969
_		_	gaa Glu	_	_		_			-					1017
-	-	_	agg Arg	-	-	-		-			_		-	-	1065
_	_	_	ggc Gly		_	_						_			1113
			tgt Cys			-	-	-							1161
			aac Asn 375					,							1209
_	-	_	gtg Val		_		-	- 1			_	_			1257
			ctc Leu												1305
	_		atg Met	-				_		_		tago	ctcct	tcc	1351

gagaattcag accetttggg gecaagtttt tetggateet ecattgeteg cettggecag 1411
gaaccageag accaactgee ttttgtgaga eetteeeete eetateeeea actttaaagg 1471
tgtgagagta ttaggaaaca tgageageat atggettttg atcagtttt cagtggeage 1531
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geataaagaa aaatggeegg geeaggteat tggetgggaa gteteageea tgeaeggaet 1651
egttteeaga ggtaattatg agegeetaee ageeaggeea eeeageegtg ggaggaaggg 1711
ggegtggeaa ggggtggea cattggtge tgtgegaaag gaaaattgae eeggaagtte 1771
etgtaataaa tgteacaata aaacgaatga atgaaaaaaa aaaaaaaaa a 1822

<210> 2

<211> 431

<212> PRT

<213> Homo sapiens

<400> 2

Met His Val Arg Ser Leu Arg Ala Ala Ala Pro His Ser Phe Val Ala 1 5 10 15

Leu Trp Ala Pro Leu Phe Leu Leu Arg Ser Ala Leu Ala Asp Phe Ser 20 25 30

Leu Asp Asn Glu Val His Ser Ser Phe Ile His Arg Arg Leu Arg Ser 35 40 45

Gln Glu Arg Arg Glu Met Gln Arg Glu Ile Leu Ser Ile Leu Gly Leu 50 55 60

Pro His Arg Pro Arg Pro His Leu Gln Gly Lys His Asn Ser Ala Pro 65 70 75 80

Met Phe Met Leu Asp Leu Tyr Asn Ala Met Ala Val Glu Glu Gly Gly 85 90 95

Gly Pro Gly Gln Gly Phe Ser Tyr Pro Tyr Lys Ala Val Phe Ser 100 105 110

Thr Gln Gly Pro Pro Leu Ala Ser Leu Gln Asp Ser His Phe Leu Thr 115 120 125 Asp Ala Asp Met Val Met Ser Phe Val Asn Leu Val Glu His Asp Lys Glu Phe Phe His Pro Arg Tyr His His Arg Glu Phe Arg Phe Asp Leu Ser Lys Ile Pro Glu Gly Glu Ala Val Thr Ala Ala Glu Phe Arg Ile Tyr Lys Asp Tyr Ile Arg Glu Arg Phe Asp Asn Glu Thr Phe Arg Ile Ser Val Tyr Gln Val Leu Gln Glu His Leu Gly Arg Glu Ser Asp Leu Phe Leu Leu Asp Ser Arg Thr Leu Trp Ala Ser Glu Glu Gly Trp Leu Val Phe Asp Ile Thr Ala Thr Ser Asn His Trp Val Val Asn Pro Arg His Asn Leu Gly Leu Gln Leu Ser Val Glu Thr Leu Asp Gly Gln Ser Ile Asn Pro Lys Leu Ala Gly Leu Ile Gly Arg His Gly Pro Gln Asn Lys Gln Pro Phe Met Val Ala Phe Phe Lys Ala Thr Glu Val His Phe Arg Ser Ile Arg Ser Thr Gly Ser Lys Gln Arg Ser Gln Asn Arg Ser Lys Thr Pro Lys Asn Gln Glu Ala Leu Arg Met Ala Asn Val Ala Glu Asn Ser Ser Ser Asp Gln Arg Gln Ala Cys Lys His Glu Leu Tyr Val Ser Phe Arg Asp Leu Gly Trp Gln Asp Trp Ile Ile Ala Pro Glu Gly Tyr Ala Ala Tyr Tyr Cys Glu Gly Glu Cys Ala Phe Pro Leu Asn Ser Tyr Met Asn Ala Thr Asn His Ala Ile Val Gln Thr Leu Val His 

Phe Ile Asn Pro Glu Thr Val Pro Lys Pro Cys Cys Ala Pro Thr Gln 385 390 395 400

Leu Asn Ala Ile Ser Val Leu Tyr Phe Asp Asp Ser Ser Asn Val Ile 405 410 415

Leu Lys Lys Tyr Arg Asn Met Val Val Arg Ala Cys Gly Cys His 420 425 430

<210> 3

<211> 102

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: OPX - Consensus sequence

<220>

<223> Wherein Xaa is independently selected from a group of one or more specified amino acids as defined in the specification

<400> 3

Cys Xaa Xaa His Glu Leu Tyr Val Xaa Phe Xaa Asp Leu Gly Trp Xaa 1 5 10 15

Asp Trp Xaa Ile Ala Pro Xaa Gly Tyr Xaa Ala Tyr Tyr Cys Glu Gly
20 25 30

Glu Cys Xaa Phe Pro Leu Xaa Ser Xaa Met Asn Ala Thr Asn His Ala  $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$ 

Ile Xaa Gln Xaa Leu Val His Xaa Xaa Xaa Pro Xaa Xaa Val Pro Lys 50 55 60

Xaa Cys Cys Ala Pro Thr Xaa Leu Xaa Ala Xaa Ser Val Leu Tyr Xaa 65 70 75 80

Asp Xaa Ser Xaa Asn Val Xaa Leu Xaa Lys Xaa Arg Asn Met Val Val 85 90 95

Xaa Ala Cys Gly Cys His 100 <210> 4

<211> 97

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Generic Sequence 7

<220>

<223> Wherein Xaa is independently selected from a group of one or more specified amino acids as defined in the specification

<400> 4

Leu Xaa Xaa Xaa Phe Xaa Xaa Xaa Gly Trp Xaa Xaa Xaa Xaa Xaa Xaa 1 5 10 15

Pro Xaa Xaa Xaa Ala Xaa Tyr Cys Xaa Gly Xaa Cys Xaa Xaa Pro 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asn His Ala Xaa Xaa Xaa Xaa Xaa Asa 40

Val Xaa Leu Xaa Xaa Xaa Xaa Met Xaa Val Xaa Xaa Cys Xaa Cys 85 90 95

Xaa

<210> 5

<211> 102

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Generic Sequence 8

<220>

<223> Wherein Xaa is independently selected from a group

of one or more specified amino acids as defined in the specification  $\ \ \,$ 

<400> 5

Cys Xaa Xaa Xaa Xaa Leu Xaa Xaa Xaa Phe Xaa Xaa Gly Trp Xaa 1 5 10 15

Xaa Xaa Xaa Xaa Pro Xaa Xaa Xaa Xaa Ala Xaa Tyr Cys Xaa Gly
20 25 30

Xaa Cys Xaa Xaa Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asn His Ala
35 40 45

Xaa Cys Cys Xaa Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Xaa Xaa 65 70 75 80

Xaa Xaa Xaa Xaa Xaa Val Xaa Leu Xaa Xaa Xaa Xaa Met Xaa Val 85 90 95

Xaa Xaa Cys Xaa Cys Xaa 100

<210> 6

<211> 97

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Generic Sequence 9

<220>

<223> Wherein Xaa is independently selected from a group of one or more specified amino acids as defined in the specification

<400> 6

Pro Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Gly Xaa Cys Xaa Xaa Xaa Xaa 20 25 30

35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa Aaa 80 80

Xaa

<210> 7

<211> 102

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Generic Sequence 10

<220>

<223> Wherein Xaa is independently selected from a group of one or more specified amino acids as defined in the specification

<400> 7

Xaa Xaa Xaa Xaa Pro Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Gly
20 25 30

Xaa Xaa Cys Xaa Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Xaa Xaa 65
70
75
80

Xaa Xaa Cys Xaa Cys Xaa 100

<210> 8

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Fragment Sequence that can be placed at the N-terminus of Generic Sequence 8

<220>

<223> Wherein Xaa is independently selected from a group of one or more specified amino acids as defined in the specification

<400> 8

Cys Xaa Xaa Xaa Xaa

1

<210> 9

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Fragment Sequence that can be placed at the N-terminus of Generic Sequence 9

<220>

<223> Wherein Xaa is independently selected from a group of one or more specified amino acids as defined in the specification

<400> 9

Cys Xaa Xaa Xaa Xaa